

## EAST Search History

S26	19	S25 @ad <= "20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/05/07 13:13
S27	2	("6235443").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2007/05/07 14:41
S28	62	((tin near oxide) or ("sno.sub.2")) near3 (doped or dopant or dope) near3 (phosphorus or P)) with (powder or particle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 14:43
S29	23	S28 and (contaminant or contaminate or purity or impurity)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 14:38
S30	13	S29 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:12
S31	14332	((conductive or electroconductive or (electro adj conductive) or electro-conductive) with (powder or particle)).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 14:42
S32	11	S31 and (((tin near oxide) or ("sno. sub.2")) near3 (doped or dopant or dope) near3 (phosphorus or P)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 14:57
S33	5	S32 and ((no or free) with (antimony or Sb))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:27
S34	11	S31 and (((tin near oxide) or ("sno. sub.2")) near3 (doped or dopant or dope) near3 (phosphorus or P))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 14:57
S35	55227	((titanium near (dioxide or oxide)) or "tio.sub.2") with (powder or particle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:31
S36	5316	(doped or dope or dopant or coated or coat or coat\$3 or layer) same ("Sno.sub.2" or (tin near (oxide or dioxide))) same (phosphorous or P)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:31

## EAST Search History

S37	166	S35 same S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:27
S38	9	S37 and ((no or free) with (antimony or Sb))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:33
S39	4343	((((titanium near (dioxide or oxide)) or "tio.sub.2") with (powder or particle)) same ((doped or dope or dopant or coated or coat or coat\$3 or layer) with ("Sno.sub.2" or (tin near (oxide or dioxide))) or (phosphorous or P))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:34
S40	437	S39 and (((high or highly) with (pure or purity)) or (low with (impurity or contaminate or contaminates or contaminant ot contaminants)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:34
S41	44	((((titanium near (dioxide or oxide)) or "tio.sub.2") with (powder or particle)) same ((doped or dope or dopant or coated or coat or coat\$3 or layer) with ("Sno.sub.2" or (tin near (oxide or dioxide))) with (phosphorous or P))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:10
S42	5	S41 and (((high or highly) with (pure or purity)) or (low with (impurity or contaminate or contaminates or contaminant ot contaminants)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:54
S43	24	((pure or purity) or (low with (impurity or contaminate or contaminates or contaminant or contaminants))) same (((tin near oxide) or "Sno.sub.2") same (phosphorus or P) same (powder or particle))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:05
S44	1	((((pure or purity) or (low with (impurity or contaminate or contaminates or contaminant or contaminants))) same ((tin near oxide) or "Sno.sub.2") same (phosphorus or P) same (powder or particle)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 15:56

## EAST Search History

S45	17	((pure or purity) or (low with (impurity or contaminate or contaminates or contaminant or contaminants))) with (((tin near oxide) or "Sno.sub.2") with (phosphorus or P))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:12
S46	34	(((titanium near (dioxide or oxide)) or "tio.sub.2") with (powder or particle)) with ((doped or dope or dopant or coated or coat or coat\$3 or layer) with ("Sno.sub.2" or (tin near (oxide or dioxide))) with (phosphorous or P))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:17
S47	24	S46 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:30
S48	14	S47 ((pure or purity) or (low with (impurity or contaminate or contaminates or contaminant or contaminants)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:14
S49	11	(((titanium near (dioxide or oxide)) or "tio.sub.2") near3 (powder or particle)) with ((doped or dope or dopant or coated or coat or coat\$3 or layer) with (((("Sno.sub.2" or (tin near (oxide or dioxide))) near3 (phosphorous or P)) or (phosphorus near3 tin near oxide)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:22
S50	12	(((titanium near (dioxide or oxide)) or "tio.sub.2" or titania) near3 (powder or particle)) with ((doped or dope or dopant or coated or coat or coat\$3 or layer) with (((("Sno.sub.2" or (tin near (oxide or dioxide))) near3 (phosphorous or P)) or (phosphorus near3 tin near oxide)) or PTO)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:27
S51	1	S50 not S49	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:23
S52	36490	(((titanium near (dioxide or oxide)) or "tio.sub.2" or titania) near2 (powder or particle))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:20

## EAST Search History

S53	15547	((("Sno.sub.2" or (tin adj (oxide or dioxide))) with (phosphorous or P)) or (phosphorus adj3 tin adj oxide) or PTO or ((phosphorus adj doped) with ((tin adj oxide) or "sno.sub.2"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:30
S54	39	S52 same S53	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:30
S55	27	S54 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:47
S56	17	S55 not S47	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 16:46
S57	19	((Sb or antimony) near2 (no or free)) with (conductive or electroconducitve) with (powder or particle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:16
S58	18	S57 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:16
S59	93	((pure or purity) with (ATO or "Sno.sub.2" or (tin near oxide)) near2 (powder or particle))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:22
S61	20	S59 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:16
S62	19	S61 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:34
S63	19	S62 not S58	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:17
S64	5879	((titanium near (dioxide or oxide)) or "tio.sub.2" or titania) with (coat\$3 or coat or dop\$3 or dope) same ("SnO.sub.2" or (tin near oxide) or ATO or PTO)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:22

## EAST Search History

S65	5267	((titanium near (dioxide or oxide)) or "tio.sub.2" or titania) with (coat\$3 or coat or dop\$3 or dope) with ("SnO.sub.2" or (tin near oxide) or ATO or PTO)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:22
S66	188	((titanium near (dioxide or oxide)) or "tio.sub.2" or titania) with (coat\$3 or coat or dop\$3 or dope) with ("SnO.sub.2" or (tin near oxide) or ATO or PTO) with (phosphorus or P)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:22
S67	34	S66 and ((pure or purity) with (percent or amount or mol or mole or gram or weight))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:23
S68	49	S66 and ((pure or purity or impurity or contaminant) with (percent or amount or mol or mole or gram or weight))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:32
S69	2	S68 and ((Sb or antimony) near2 (no or free))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:24
S70	3	S68 and ((Sb or antimony) with (no or free))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:25
S72	46	S68 not S70	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:31
S73	831	(conductive or electroconductive) with (coat\$3 or layer) same (((("Sno.sub.2" or (tin adj (oxide or dioxide))) with (phosphorous or P)) or (phosphorus adj3 tin adj oxide) or PTO or ((phosphorus adj doped) with ((tin adj oxide) or "sno.sub.2"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:35
S74	135	S73 and ((pure or purity or impurity or contaminant) with (percent or amount or mol or mole or gram or weight))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:32
S75	3	S74 and ((no or free) with (antimony or Sb))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:34

## EAST Search History

S76	98	S74 and ((antimony or Sb))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:34
S77	52	S76 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:33
S78	65	((conductive or electroconductive) with (coat\$3 or layer) same (((("Sno. sub.2" or (tin adj (oxide or dioxide))) with (phosphorous or P)) or (phosphorus adj3 tin adj oxide) or PTO or ((phosphorus adj doped) with ((tin adj oxide) or "sno.sub. 2")))).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 17:35
S79	52	S78 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:30
S81	110	(high or highly) near3 (pure or purity) with ((conductive near2 layer) or (phosphorus adj3 doped adj3 tin adj oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:32
S82	40	((high or highly) near3 (pure or purity) with ((conductive near2 layer) or (phosphorus adj3 doped adj3 tin adj oxide))).ti. or ((high or highly) near3 (pure or purity) with ((conductive near2 layer) or (phosphorus adj3 doped adj3 tin adj oxide))).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:44
S83	29	S82 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:45
S90	15	((high or highly) near3 (pure or purity) with (tin adj oxide)).ti. or ((high or highly) near3 (pure or purity) with (in adj oxide)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:00
S91	11	S90 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:53
S92	3	(phosphorus or p) with (tin or sn) with (oxide or dioxide or "o.sub.s") with (coating or coat or layer or material) with purity	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:55

## EAST Search History

S93	108	(phosphorus or p) with (tin or sn) with (oxide or dioxide or "o.sub.s") with (coating or coat or layer or material) with (purity or impurit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/18 08:10
S94	85	S93 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:11
S95	53	S94 and (((tin or sn) near2 (oxide or dioxide or "o.sub.s"))) with (coating or coat or layer or material))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 18:57
S96	221	((high or highly) near3 (pure or purity) with ((titanium adj oxide) or titania or "tio.sub.2") with (powder or particle)).ti. or ((high or highly) near3 (pure or purity) with ((titanium adj oxide) or titania or "tio.sub.2") with (powder or particle)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:22
S97	2	S96 and ((coated or coat or coating or dop\$3 or dope) with ((metal or tin or precious) near3 oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:21
S98	172	S96 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:23
S99	2	S98 and ((coated or coat or coating or dop\$3 or dope) same ((metal or tin or precious) near3 oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:12
S10 3	9	S98 and (((metal or tin or precious) near3 oxide) or "SnO.sub.2")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:14
S10 4	3760	((base or based or core) with ((titanium adj oxide) or titania or "tio.sub.2") with (powder or particle)).ti. or ((base or based or core) with ((titanium adj oxide) or titania or "tio.sub.2") with (powder or particle)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:21
S10 5	191	S104 and ((coated or coat or coating or dop\$3 or dope) with ((metal or tin or precious or Sn) near3 (oxide or "o.sub.2")))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:38

## EAST Search History

S10 6	11	S105 and ((impurit\$3 or purit\$3) with (weight or percent or amount or mole or molar or mol))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:38
S10 7	8	S106 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:38
S10 8	8	((impurit\$3 or purit\$3) with (weight or percent or amount or mole or molar or mol)) same (coated with (powder or particle) with (PTO or (titanium near3 dioxide) or "TiO.sub.2"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:32
S10 9	54	("3522079").PN. OR ("4452830").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/17 19:37
S11 0	19	S109 and ((impurit\$3 or purit\$3) with (weight or percent or amount or mole or molar or mol))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:38
S11 1	19	S110 @ad <= "20030723"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:38
S11 2	8	S111 and ((coated or coat or coating or dop\$3 or dope) with ((metal or tin or precious or Sn) near3 (oxide or "o.sub.2")))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 19:39
S11 3	7865	(pure or purity or purit\$3) with (pigment or titanin or (titanium near2 oxide) or "tiO.sub.2")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:01
S11 4	54	(pigment or titanin or (titanium near2 dioxide) or "tiO.sub.2") same (coated or doped or coating or layer) same ((phosphorus or P) with dop\$3 with ((tin or sn) adj (oxide or dioxide)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:22
S11 5	54	(pigment or titanin or (titanium near2 dioxide) or "tiO.sub.2") same (coated or doped or coating or layer) same ((phosphorus or P) with dop\$3 with ((tin or sn) adj (oxide or dioxide or "o.sub.2")))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 21:50
S11 6	2	S113 and S115	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 21:48



## EAST Search History

S11 7	313	(pigment or titania or (titanium near2 dioxide) or "tiO.sub.2") and ((coated or doped or coating or layer) same ((phosphorus or P) with dop\$3 with ((tin or sn) adj (oxide or dioxide or "o.sub.2"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:03
S11 8	10	S113 and S117	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 21:51
S11 9	2722	(pure or purity or purit\$3 or impurit\$3 or contaminant) with (pigment or titanin or (titanium near2 oxide) or "tiO.sub.2") with (weight or percent or amount or mol or mole or molar or concentration or level)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:24
S12 0	1967	(pigment or titania or (titanium near2 dioxide) or "tiO.sub.2") same ((coated or doped or coating or layer) same ((phosphorus or P) same ((tin or sn or metal or precious) adj3 (oxide or dioxide or "o.sub.2"))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:04
S12 1	18	S119 and S120	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:04
S12 2	16	S121 not S118	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:04
S12 3	11	S122 @ad <= "20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:24
S12 4	38	("3579310"   "4373013"   "4420534"   "4431764"   "4452830"   "4457973"   "4568609"   "4655966").PN. OR ("4880703"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/17 22:16
S12 5	15	("3451741"   "3819252"   "3912368"   "3951521"   "3963314"   "4013343"   "4039255"   "4116535"   "4139276"   "4175837"   "4192581").PN. OR ("4309081"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/17 22:19

## EAST Search History

S12 6	2545	(pigment or titanin or (titanium near2 dioxide) or "tiO.sub.2") with (coated or doped or coating or layer) with ((tin or sn) adj (oxide or dioxide or "o.sub.2" or stann\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:23
S12 7	356142	(pure or purity or purit\$3 or impurit\$3 or contaminant) with (weight or percent or amount or mol or mole or molar or concentration or level)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:24
S12 8	6	S126 same S127	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:24
S12 9	3	S128 @ad <= "20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/10/17 22:24
S13 1	16	(phosphorus or p or sb antimony) adj doped ((tin or sn) adj (oxide or dioxide or "o.sub.s")) with (coating or coat or layer or material) with (purity or impurit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2007/10/18 08:12
S13 2	1198	((("TiO.sub.2" or (titanium adj dioxide) or tantinia) with (core or nuclei or base or surface)) same (doped or coover or coated or layer or film) same ("SnO.sub.2" or (tin near oxide) or stann\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/10/18 08:24
S13 3	570	((("TiO.sub.2" or (titanium adj dioxide) or tantinia) with (core or nuclei or base or surface)) with (doped or coover or coated or layer or film) with ("SnO.sub.2" or (tin near oxide) or stann\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/10/18 08:25
S13 4	5	S133 and (((doped or coover or coated or layer or film) with ("SnO.sub.2" or (tin near oxide) or stann\$3)) with (impurit\$3 or purit\$3 or pure or contaminan\$2) with (percent or weight or mol\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/10/18 08:40
S13 5	4	("3579310").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/10/18 08:40